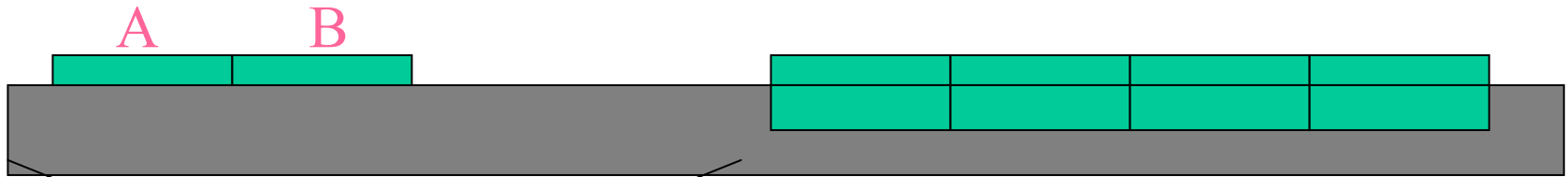
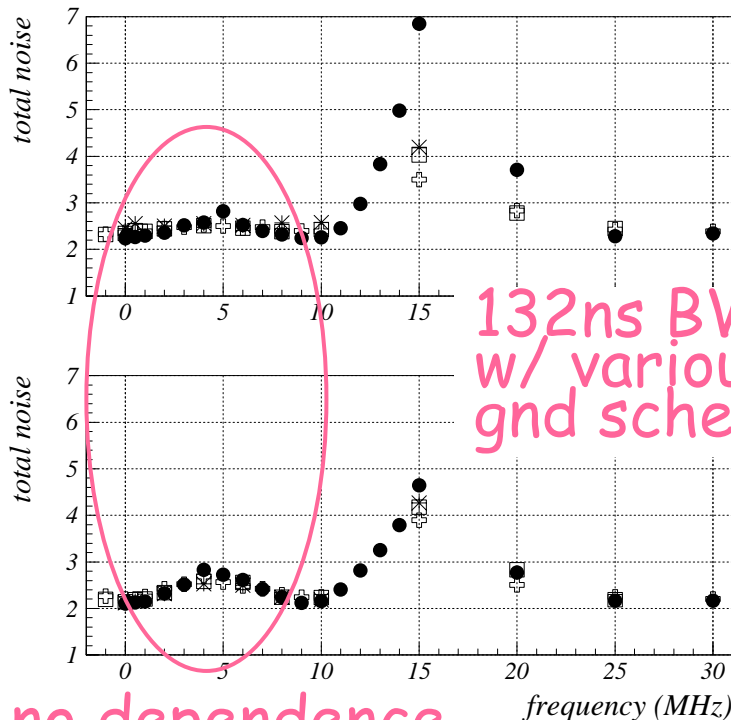


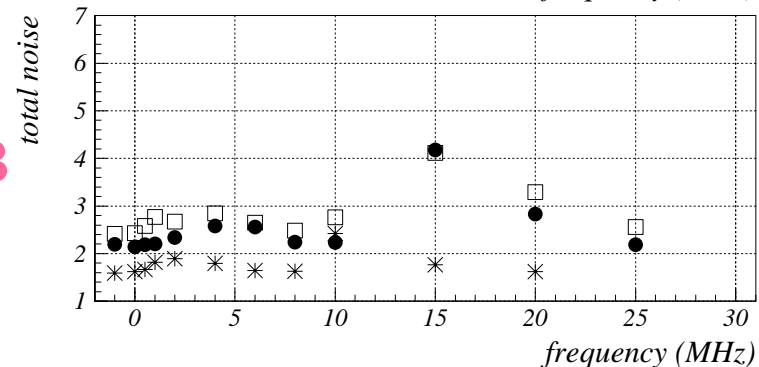
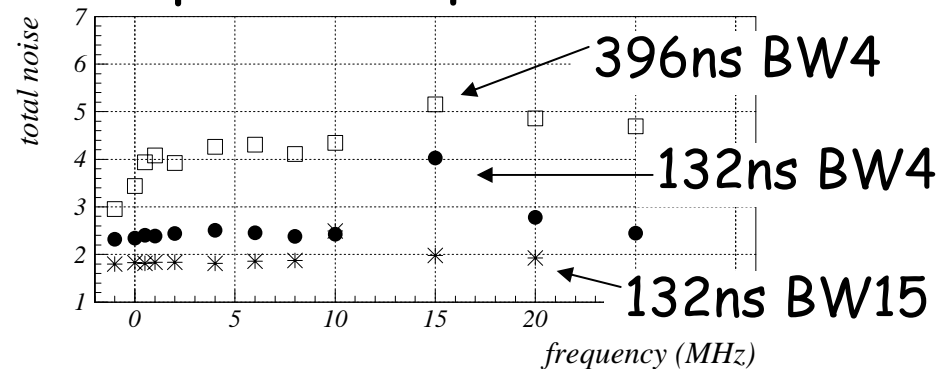
Noise study using pulse generator



- pulse height adjusted so that the measured amplitude equals to 100mV



no dependence

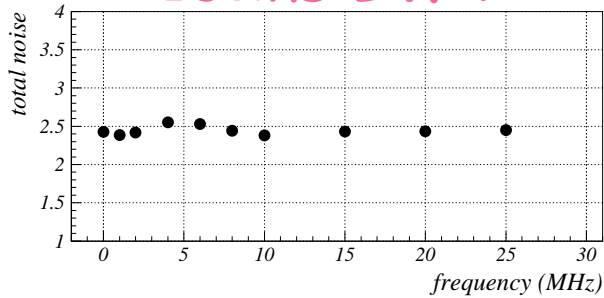


Comments on previous measurements

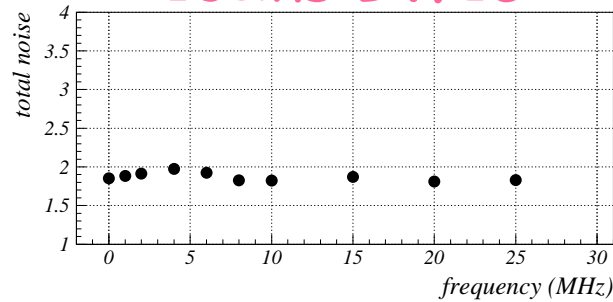
- The output level of the pulse generator was not constant at all
 - needs very high output (>200 mV) to have 100mV measured height at ~ 16 MHz and ~ 45 MHz
 - this resonance like behavior was removed by replacing the long (16ns?) cables to short (3ns) cables \leftarrow according to Marvin, it may be due to non-perfect impedance matching and overlaid waves
- Noise comes from a potential source most of the time, not from a voltage source
- Repeat the measurement with fixed output (100mV), plus short cables

New result

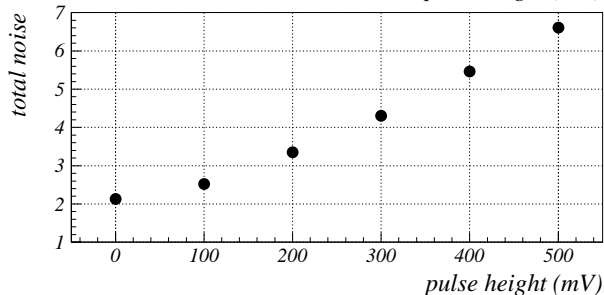
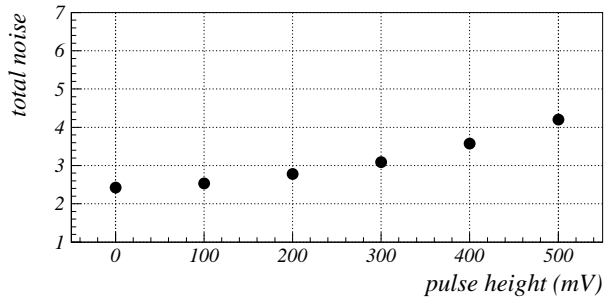
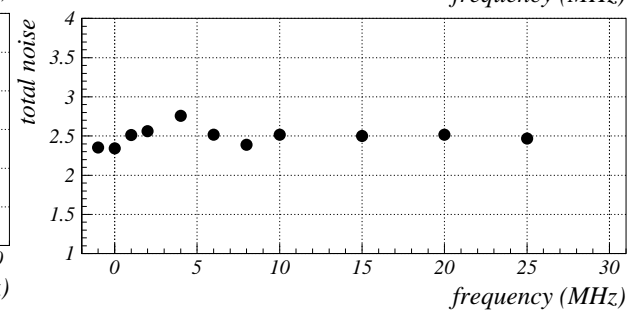
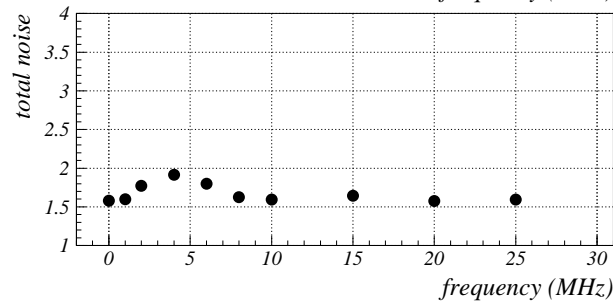
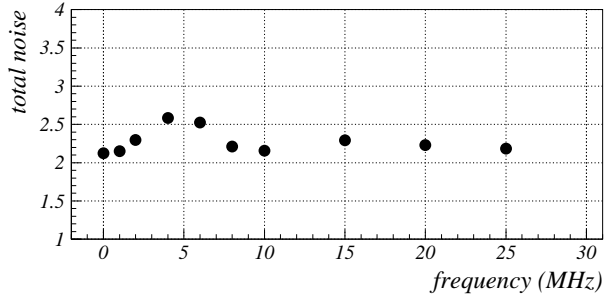
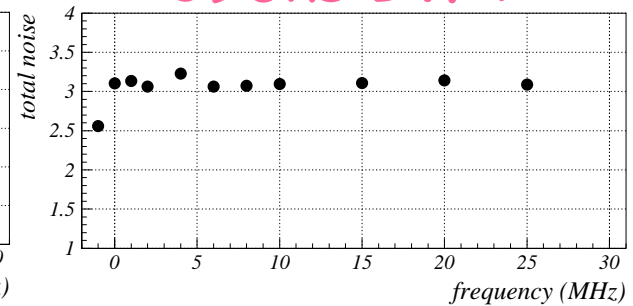
132ns BW4



132ns BW15



396ns BW4



- Pickup noise most significant at ~4MHz for any configurations
- Amplitude dependence almost linear with offset
- Module B is more sensitive